8PXB60-RGB-12V-W Datasheet

AUSTRALIAN DESIGNED

12V RGB Pixel Strip with 60 LEDs per metre, featuring a white PCB and 20 controllable pixels.



ENTTEC 8PXB60-RGB-12V-W is a 12V 60 LEDs per metre addressable RGB LED Pixel Strip allowing individual colour control over clusters of 3 RGB LEDs (20 pixels per metre), designed for professional architectural and entertainment purposes, used to display smooth animated graphics achieving soft pastels and saturated colours on a large scale.

Cut and join into any conceivable shape.

The white PCB makes it perfectly suited to installing in extrusions and lightboxes where it contributes to reflecting as much light forward as possible.

It's 800Kbps transmission rate and 8-bit colour depth means graphics and animations are played back smoothly and consistently.

At ENTTEC, manufacturing quality and attention to detail is paramount. We always use thicker PCB to offer more durability, better heat dissipation and reduced voltage drop when compared to other LED strips available on the market. This in combination with the 12v operating voltage allows up to a 10m run with a single power injection.

Features

- RGB, 3 in 1 full colour LED pixel strip.
- Premium flexible white 3oz copper PCB.
- Suitable for stage, entertainment and architectural applications.
- 12V DC input supply voltage.
- 60 LEDs per metre density.
- **■** 20 Pixels per metre density.
- WS2811 IC chips.
- 16.4 million possible shades per LED.
- 120-degree illumination.
- 3M adhesive double side tape on the rear.
- Built-in data signal reshaping circuit.
- High LED density.
- Can be cut or joined at each copper tab.
- IP20 Indoor use only.

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- Designed for use with ENTTEC pixel products.
- Maximum 10.08 Watts/Metre.



Specification

Specification			
Connectors	2* 3Pin JST SM connectors (3A Max)		
IP Rating	IP20		
Input Voltage	12V		
Watts/Metre (Max)	10.08 W		
Lumens/Metre (Max)	349.40		
Efficacy (Lm/Watt)	34.66		
DMX Channels/Pixel	3		
Beam Angle	120 °		
Control Protocol	WS2811		
Data Transmission Rate	800 Kbps		
Backup Data Line	No		
Pixel Mapping Order	RGB		
PCB Colour	White		
PCB Width	10mm / 0.40"		
Bend Radius (Min)	30mm / 1.2"		
Spacing Between Cuttable Sections	50mm / 1.98"		
Environmental	0°C to 50°C		
Operating Temperature	32°F to 122°F		
Environmental Operating Humidity	5- 95%		
Weight (5m Roll)	(non-condensing) 0.18Kg / 0.40lbs		
Shipping Dimensions	240 * 215 * 16mm		
(Single Roll)	9.45 * 8.47 * 0.63"		
Shipping Weight (Carton of 5 Rolls)	0.80Kg / 1.76lbs		
Shipping Dimensions (Carton of 5 Rolls)	260 * 225 * 93mm 10.24 * 10.04 * 3.66"		
Warranty	1 year return to base manufacturer warranty		

Certification CELKE

Box Contents

- 1* 5m 8PXB60-RGB-12V-W reel
- 1* 3Pin JST SM connector (3A max)

Connections

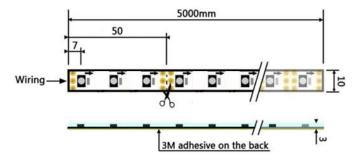
3PIN JST SM Connector:

- 12V
- DI/DO: Data Out/Data In
- GND: Ground

Visit the ENTTEC knowledgebase for wiring guides.

Physical Dimension

60 Pixels/meter



Maximum Run Length

Colour and lumen output will be affected if maximum length is exceeded. Test conducted at maximum brightness using 12volt driver.

		MAXIMUM LENGTH	
POWER INJECTION	LED PER METRE	RED, GREEN, BLUE	ALL ON
SINGLE	60	10m	6m
DUAL	60	15m	10 m

Note: Maximum length of pixel strip run is limited by maximum universes of data.

Safety

- Ensure all cabling is rated to handle the current of each pixel strip section. ENTTEC recommend separate wiring soldered directly to the strip, to substitute the original JST SM connector for sections exceeding 3A current consumption.
- Make all connections and ensure your installation is appropriately fused before powering it.
- Handle with care and adhere to the LED Pixel Strip instruction sheet.
- Pixel strips produce heat; ensure proper thermal management by attaching to a thermally conductive surface and providing 150mm / 6" for convection.
- This product is intended for indoor use only. Do not expose to moisture, doing so will void the warranty.
- Never plug this product into a dimmer.

Ordering information

For further support and to browse ENTTEC's range of products visit the ENTTEC website.

Item	SKU
RGB PIXEL STRIP 60 LEDs/	8PXB60-RGB-
METRE 12V – 5-METRE ROLL	12V-W
WHITE	

enttec.com

MELBOURNE AUS / LONDON UK / RALEIGH-DURHAM USA / DUBAI UA

Due to constant innovation, information within this document is subject to change.